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(71) Applicant: **AJINOMOTO CO INC**

(72) Inventor: **MURAKAMI YUTAKA**

**KAWAHARA YOSHIO**

**IMAIZUMI KOICHI**

### (54) **PRODUCTION OF L-GLUTAMIC ACID BY FERMENTATION METHOD**

#### (57) Abstract:

PURPOSE: To industrially and inexpensively obtain the subject compound by culturing a variant belonging to the genus *Brevibacterium* or *Corynebacterium*, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis.

CONSTITUTION: A variant [e.g. *Brevibacterium*

*lactofermentum*-vancomycin resistant variant AJ12,557 (FERM P-11,730)] belonging to the genus *Brevibacterium* or *Corynebacterium*, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis, is inoculated into a medium having an osmotic pressure of 2,000-4,000 mOsm/kg.H<sub>2</sub>O which is higher than a common medium in L-glutamic acid fermentation, subjected to shaking culture at 31.5°C, L-glutamic acid is formed and accumulated in the culture solution and collected to give the objective L-glutamic acid.

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